

2010-10-22 Friday Morning Notes

Friday, October 22, 2010
6:00 AM

On-call

- Friday: Keith Gollwitzer
- Saturday: Tony Leveling
- Sunday: Dave Vander Muelen

Stacking

- $\langle \text{stacking rate} \rangle = 23.2 \text{ mA/hr}$
- $\langle \text{production} \rangle = 20.8 \text{ pbar/E6 protons}$
- $\langle \text{POT} \rangle = 8.5 \text{ Tp}$

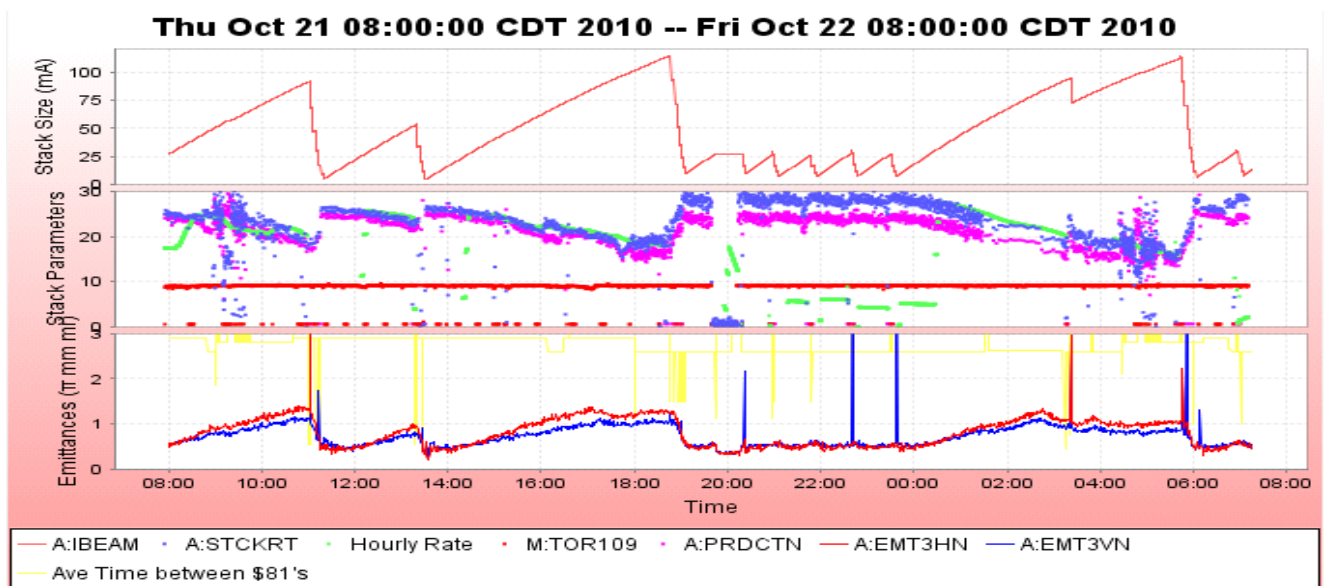
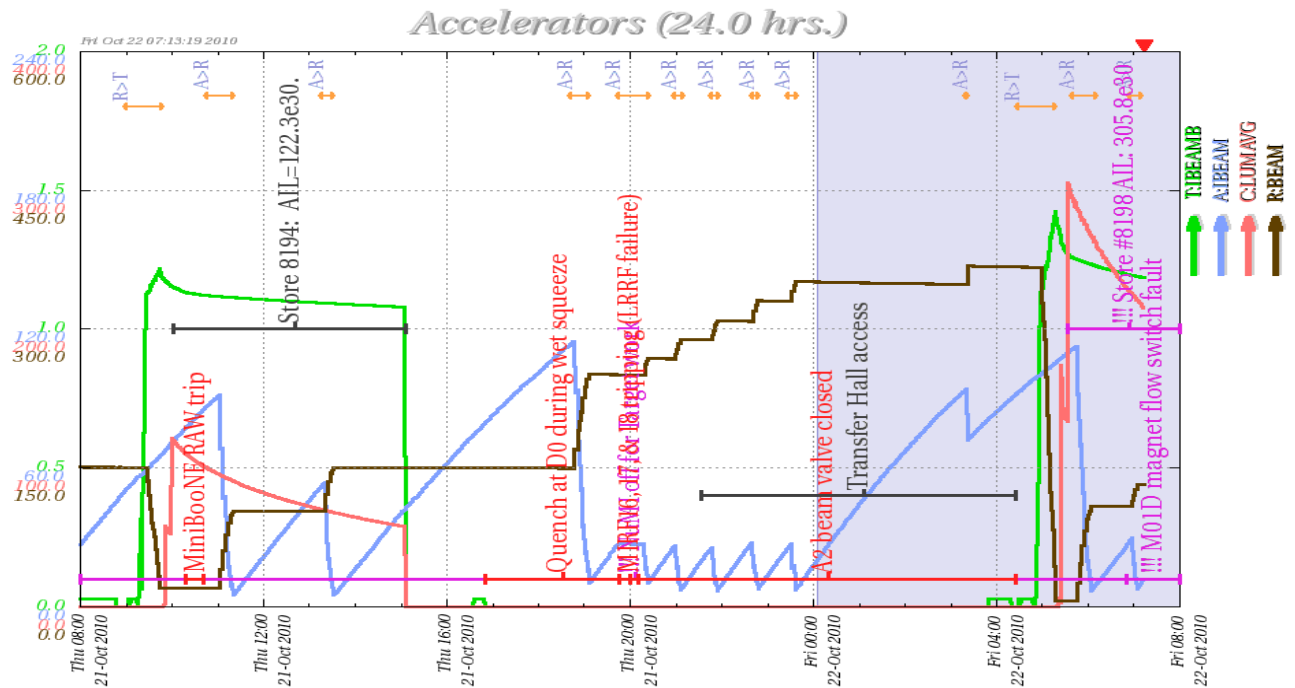
Transfers

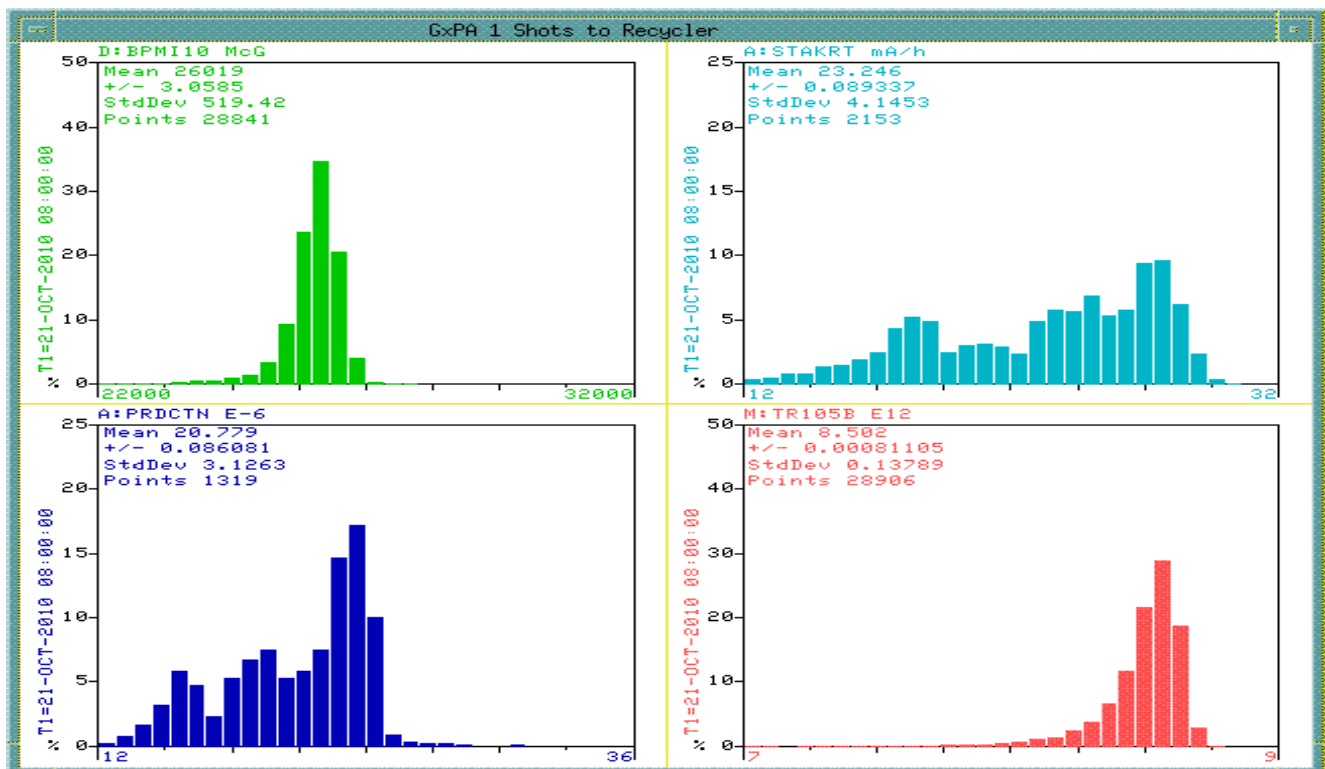
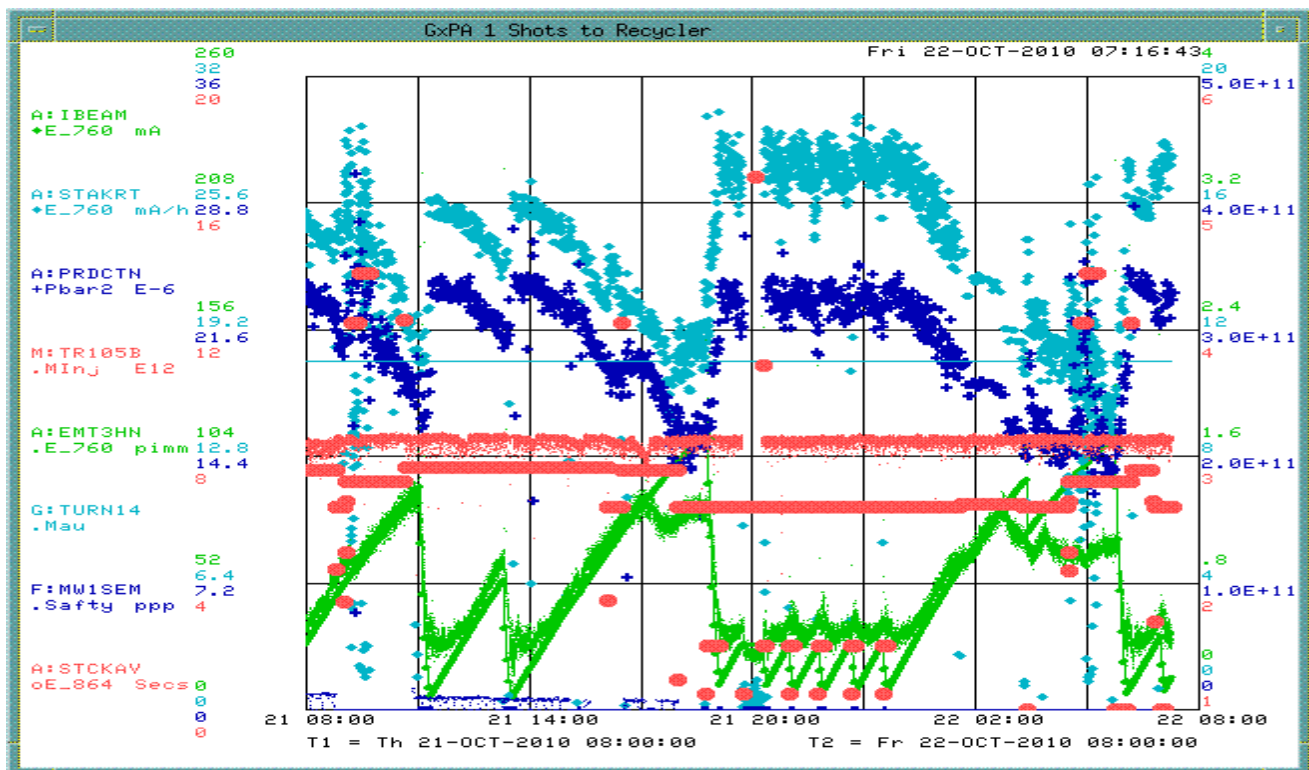
- A10 BPM house not healthy
- Unstacked $520 \text{e}10$
- Average efficiency = 93.6%
- Take out the big stack transfers = 96.6%

The Numbers

- Dailey
- Weekly
 - Stacking
 - Pbars stacked: $3385.89 \text{ E}10$
 - Time stacking: 143.47 Hr
 - Average stacking rate: $23.60 \text{ E}10/\text{Hr}$
 - Uptime
 - Number of pulses while in stacking mode: 184858
 - Number of pulses with beam: 173394
 - Fraction of up pulses was: 93.80%
 - The uptime's effect on the stacking numbers
 - Corrected time stacking: 134.58 Hr
 - Possible average stacking rate: $25.16 \text{ E}10/\text{Hr}$
 - Could have stacked: $3609.75 \text{ E}10/\text{Hr}$
 - Recycler Transfers
 - Pbars sent to the Recycler: $3370.92 \text{ E}10$
 - Number of transfers : 397
 - Number of transfer sets: 128
 - Average Number of transfer per set: 3.10
 - Time taken to shoot including reverse proton tuneup: 01.39 Hr
 - Transfer efficiency: 95.69%
 - Other Info
 - Average POT : $8.35 \text{ E}12$
 - Average production: $23.37 \text{ pbars/E6 protons}$
 - * Red indicates a problem during data retrieval. See the message window for details.

The Daily Plots





Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number _20_A-I BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number _21_A-I BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R: BEAMS (R:BEA ME0[0]) pre xfer E10	Column 24 Number _23_R: BEAM (R:BEA ME0[1]) post xfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI + Acc to MI2 Efficiency	Transfers	Sets	Column 5 Number _4_Acc Horizontal Emittance	Column 6 Number _5_Acc Vertical Emittance	Column 8 Number _7_Acc Longitudinal Emittance	
	Totals =>			520.87			488.03	93.69%	96.15%	96.13%	92.43%	10	11	6.3565	5.8632	1.8039	
	Daily Average =>			520.87			488.03					10	11				
21380	Friday, October 22, 2010	6:58	29.64	7.69	24.24	108.66	132.05	23.48	96.85%	98.13%	97.64%	95.82%		1	5.085	5.108	1.903
21379	Friday, October 22, 2010	5:45	112.73	6.61	111.55	6.49	109.00	103.41	92.71%	95.47%	95.12%	90.81%		1	7.251	6.106	1.691
21378	Friday, October 22, 2010	3:22	94.55	72.08	22.48	348.55	368.67	20.11	89.47%	93.35%	92.58%	86.43%		1	10.241	8.931	1.259
21377	Thursday, October 21, 2010	23:31	27.54	7.29	22.66	330.14	351.82	21.91	96.71%	98.24%	99.56%	97.81%		1	4.976	5.251	1.949
21376	Thursday, October 21, 2010	22:41	28.36	7.33	23.50	308.49	330.98	22.74	96.77%	97.65%	98.64%	96.32%		1	4.89	4.838	1.993
21375	Thursday, October 21, 2010	21:47	26.16	6.94	21.65	288.59	309.28	20.89	96.49%	98.44%	97.95%	96.42%		1	4.636	4.999	1.977
21374	Thursday, October 21, 2010	20:59	26.75	7.07	22.14	267.95	289.16	21.36	96.48%	97.95%	98.45%	96.44%		1	5.074	4.794	1.916
21373	Thursday, October 21, 2010	20:18	27.48	10.18	18.57	250.57	268.36	17.87	96.24%	98.55%	99.03%	97.59%		1	4.801	4.671	1.935
21372	Thursday, October 21, 2010	18:46	114.31	9.76	111.77	149.74	251.83	103.80	92.87%	95.68%	95.87%	91.73%		1	8.799	7.739	1.726
21371	Thursday, October 21, 2010	13:20	53.64	5.25	50.78	103.10	150.75	47.99	94.50%	96.42%	95.95%	92.52%	4	1	6.305	5.625	1.785
21370	Thursday, October 21, 2010	11:02	91.61	4.79	91.53	19.85	103.51	84.45	92.27%	95.18%	95.20%	90.61%	6	1	7.864	6.433	1.709

Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time		Column 21 Number_20_A-I BEAMB sampled on \$91 (A:BEAM7), E10	Column 22 Number_21_A-I BEAMB sampled on \$94 (A:BEAM9), E10	Unstacked (mA)	Column 23 Number_22_R: BEAMS (R:BEAMEO[0]) pre xfer E10	Column 24 Number_23_R: BEAM (R:BEAMEO[1]) post xfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI + Acc to MI2 Efficiency	Transfers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudinal Emittance	
	Totals =>				132.76			128.26	96.61%	98.14%	98.52%	96.70%	10	6	4.9103	4.9435	1.9455	
	Daily Average =>				132.76			128.26					10	6				
21380	Friday, October 22, 2010		6:58	29.64	7.69	24.24	108.66	132.05	23.48	96.85%	98.13%	97.64%	95.82%		1	5.085	5.108	1.903
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The Weekly Plots

